



79880102.txt  
SEQUENCE LISTING

<110> UMEYAMA, HIDEAKI  
WATANABE, YOSHIKI  
ARAI, RYOICHI

<120> LIGAND SCREENING APPARATUS, LIGAND SCREENING METHOD,  
PROGRAM AND RECORDING MEDIUM

<130> 079088-0102

<140> 10/590,116

<141> 2006-08-18

<150> PCT/JP2005/003558

<151> 2005-02-24

<150> JP 2004-048767

<151> 2004-02-24

<160> 7

<170> PatentIn version 3.5

<210> 1

<211> 137

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown: cellular retinoic acid binding  
protein type II (CRABP-II) (PDB code: 1CBQ)

<400> 1

Pro Asn Phe Ser Gly Asn Trp Lys Ile Ile Arg Ser Glu Asn Phe Glu  
1 5 10 15

Glu Leu Leu Lys Val Leu Gly Val Asn Val Met Leu Arg Lys Ile Ala  
20 25 30

Val Ala Ala Ala Ser Lys Pro Ala Val Glu Ile Lys Gln Glu Gly Asp  
35 40 45

Thr Phe Tyr Ile Lys Thr Ser Thr Thr Val Arg Thr Thr Glu Ile Asn  
50 55 60

Phe Lys Val Gly Glu Glu Phe Glu Glu Gln Thr Val Asp Gly Arg Pro  
65 70 75 80

Cys Lys Ser Leu Val Lys Trp Glu Ser Glu Asn Lys Met Val Cys Glu  
85 90 95

Gln Lys Leu Leu Lys Gly Glu Gly Pro Lys Thr Ser Trp Thr Arg Glu  
100 105 110

Leu Thr Asn Asp Gly Glu Leu Ile Leu Thr Met Thr Ala Asp Asp Val  
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115

120

125

Val Cys Thr Arg Val Tyr Val Arg Glu  
 130 135

<210> 2  
 <211> 131  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Description of Unknown: Intestinal fatty acid binding  
 protein (PDB code: 1ICM)

<400> 2  
 Ala Phe Asp Gly Thr Trp Lys Val Asp Arg Asn Glu Asn Tyr Glu Lys  
 1 5 10 15

Phe Met Glu Lys Met Gly Ile Asn Val Val Lys Arg Lys Leu Gly Ala  
 20 25 30

His Asp Asn Leu Lys Leu Thr Ile Thr Gln Glu Gly Asn Lys Phe Thr  
 35 40 45

Val Lys Glu Ser Ser Asn Phe Arg Asn Ile Asp Val Val Phe Glu Leu  
 50 55 60

Gly Val Asp Phe Ala Tyr Ser Leu Ala Asp Gly Thr Glu Leu Thr Gly  
 65 70 75 80

Thr Trp Thr Met Glu Gly Asn Lys Leu Val Gly Lys Phe Lys Arg Val  
 85 90 95

Asp Asn Gly Lys Glu Leu Ile Ala Val Arg Glu Ile Ser Gly Asn Glu  
 100 105 110

Leu Ile Gln Thr Tyr Thr Tyr Glu Gly Val Glu Ala Lys Arg Ile Phe  
 115 120 125

Lys Lys Glu  
 130

<210> 3  
 <211> 147  
 <212> PRT  
 <213> Unknown

<220>  
 <223> Description of Unknown: Flavodoxin (PDB code: 1J9G)

<400> 3  
 Ala Lys Ala Leu Ile Val Tyr Gly Ser Thr Thr Gly Asn Thr Glu Tyr  
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1              5              10              15
Thr Ala Glu Thr Ile Ala Arg Glu Leu Ala Asp Ala Gly Tyr Glu Val
  20              25              30
Asp Ser Arg Asp Ala Ala Ser Val Glu Ala Gly Gly Leu Phe Glu Gly
  35              40              45
Phe Asp Leu Val Leu Leu Gly Cys Ser Thr Trp Gly Asp Asp Cys Ile
  50              55              60
Glu Leu Gln Asp Asp Phe Ile Pro Leu Phe Asp Ser Leu Glu Glu Thr
  65              70              75              80
Gly Ala Gln Gly Arg Lys Val Ala Cys Phe Gly Cys Gly Asp Ser Ser
  85              90              95
Tyr Glu Tyr Phe Cys Gly Ala Val Asp Ala Ile Glu Glu Lys Leu Lys
  100             105             110
Asn Leu Gly Ala Glu Ile Val Gln Asp Gly Leu Arg Ile Asp Gly Asp
  115             120             125
Pro Arg Ala Ala Arg Asp Asp Ile Val Gly Trp Ala His Asp Val Arg
  130             135             140
Gly Ala Ile
  145

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<210> 4
<211> 165
<212> PRT
<213> Unknown

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<220>
<223> Description of Unknown: Flavodoxin (PDB code: 1AHN)

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<400> 4
Ala Ile Thr Gly Ile Phe Phe Gly Ser Asp Thr Gly Asn Thr Glu Asn
1              5              10              15
Ile Ala Lys Met Ile Gln Lys Gln Leu Gly Lys Asp Val Ala Asp Val
  20              25              30
His Asp Ile Ala Lys Ser Ser Lys Glu Asp Leu Glu Ala Tyr Asp Ile
  35              40              45
Leu Leu Leu Gly Ile Pro Thr Trp Tyr Tyr Gly Glu Ala Gln Cys Asp
  50              55              60

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Trp Asp Asp Phe Phe Pro Thr Leu Glu Glu Ile Asp Phe Asn Gly Lys  
65 70 75 80

Leu Val Ala Leu Phe Gly Cys Gly Asp Gln Glu Asp Tyr Ala Glu Tyr  
85 90 95

Phe Cys Asp Ala Leu Gly Thr Ile Arg Asp Ile Ile Glu Pro Arg Gly  
100 105 110

Ala Thr Ile Val Gly His Trp Pro Thr Ala Gly Tyr His Phe Glu Ala  
115 120 125

Ser Lys Gly Leu Ala Asp Asp Asp His Phe Val Gly Leu Ala Ile Asp  
130 135 140

Glu Asp Arg Gln Pro Glu Leu Thr Ala Glu Arg Val Glu Lys Trp Val  
145 150 155 160

Lys Gln Ile Ser Glu  
165

<210> 5  
<211> 158  
<212> PRT  
<213> Unknown

<220>  
<223> Description of Unknown: Matrix metalloproteinase-8  
(MMP-8) (PDB code: 1MMB)

<400> 5  
Asn Pro Lys Trp Glu Arg Thr Asn Leu Thr Tyr Arg Ile Arg Asn Tyr  
1 5 10 15

Thr Pro Gln Leu Ser Glu Ala Glu Val Glu Arg Ala Ile Lys Asp Ala  
20 25 30

Phe Glu Leu Trp Ser Val Ala Ser Pro Leu Ile Phe Thr Arg Ile Ser  
35 40 45

Gln Gly Glu Ala Asp Ile Asn Ile Ala Phe Tyr Gln Arg Asp His Gly  
50 55 60

Asp Asn Ser Pro Phe Asp Gly Pro Asn Gly Ile Leu Ala His Ala Phe  
65 70 75 80

Gln Pro Gly Gln Gly Ile Gly Gly Asp Ala His Phe Asp Ala Glu Glu  
85 90 95

Thr Trp Thr Asn Thr Ser Ala Asn Tyr Asn Leu Phe Leu Val Ala Ala  
100 105 110

His Glu Phe Gly His Ser Leu Gly Leu Ala His Ser Ser Asp Pro Gly  
115 120 125

Ala Leu Met Tyr Pro Asn Tyr Ala Phe Arg Glu Thr Ser Asn Tyr Ser  
130 135 140

Leu Pro Gln Asp Asp Ile Asp Gly Ile Gln Ala Ile Tyr Gly  
145 150 155

<210> 6

<211> 159

<212> PRT

<213> Unknown

<220>

<223> Description of Unknown: MMP-3 (PDB code: 1B3D)

<400> 6

Ile Pro Lys Trp Arg Lys Thr His Leu Thr Tyr Arg Ile Val Asn Tyr  
1 5 10 15

Thr Pro Asp Leu Pro Lys Asp Ala Val Asp Ser Ala Val Glu Lys Ala  
20 25 30

Leu Lys Val Trp Glu Glu Val Thr Pro Leu Thr Phe Ser Arg Leu Tyr  
35 40 45

Glu Gly Glu Ala Asp Ile Met Ile Ser Phe Ala Val Arg Glu His Gly  
50 55 60

Asp Phe Tyr Pro Phe Asp Gly Pro Gly Asn Val Leu Ala His Ala Tyr  
65 70 75 80

Ala Pro Gly Pro Gly Ile Asn Gly Asp Ala His Phe Asp Asp Asp Glu  
85 90 95

Gln Trp Thr Lys Asp Thr Thr Gly Thr Asn Leu Phe Leu Val Ala Ala  
100 105 110

His Glu Ile Gly His Ser Leu Gly Leu Phe His Ser Ala Asn Thr Glu  
115 120 125

Ala Leu Met Tyr Pro Leu Tyr His Ser Leu Thr Asp Leu Thr Arg Phe  
130 135 140

Arg Leu Ser Gln Asp Asp Ile Asn Gly Ile Gln Ser Leu Tyr Gly  
145 150 155

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<210> 7  
<211> 5  
<212> PRT  
<213> Unknown

<220>  
<223> Description of Unknown: Peptide ligand  
(PDB code: 1UK4)

<400> 7  
Asn Ser Thr Leu Gln  
1 5